

3. Designing A Hydraulic Ram Pump System

3.1. Total water usage

Before any Ram Pump system can be designed, there are certain pieces of information that must be gathered:

1. The difference in elevation between the water source and the proposed Ram Pump site.
2. The difference in elevation between the Ram Pump and proposed storage tank.
3. The available flow rate of water from the source.
4. The required flow rate at the storage facility
5. The distance from the source to the Ram Pump site
6. The distance from the Ram Pump site to the storage facility.

Calculation of available water is in section 4.4

Note: This data gathered may be changed to increase Ram Pump output or decrease piping costs. Engineering design is an iterative process and these numbers can change to decrease the cost of the system.

3.2. Site Surveying

Since the initial guess for Ram Pump and storage tank location will not always be correct, it is very important to

3.3. Drive Pipe

The drive pipe runs from the water source directly into the Ram Pump. When the Ram Pump closes, the pressure wave disperses in this pipe, so it is important that this pipe be rigid. The more rigid the drive pipe, the more efficient the pump will be (and the more water that can be pumped to the storage facility).

The length of the drive pipe is based on the location of installation. For the pump to function efficiently (or at all) the drive pipe must fall within certain limits. The maximum and minimum lengths of drive pipe are based on the drive pipe length (L) and the drive pipe diameter (D). If the distance from the intake to the Ram Pump is longer than the maximum pipe length, a standpipe should be placed in the system.

3.4. Locate standpipe or drive tank

If the distance from the intake to the pump is longer than the maximum drive pipe length, the system needs a standpipe. Stand pipes are only necessary if the drive pipe will be longer than the recommended maximum length (for instance, in the previous example a stand pipe may be required if the drive pipe were to be 150 feet in length, but the maximum drive length was determined to be only 104 feet). The stand pipe - if needed - is

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